

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: S. V. Govindan, et al.
Title: STABLE RADIOIODINE CONJUGATES AND METHODS FOR THEIR
SYNTHESIS
Appl. No.: Unassigned
Filing Date: 10/15/2003
Examiner: Unknown
Art Unit: Unknown

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop PATENT APPLICATION
Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith on Form PTO/SB/08 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 08/919,477; 09/696,740, filed 08/28/1997; 10/26/2000. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), within three (3) months of the filing date of the application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date Oct. 16, 2003

By 

FOLEY & LARDNER

Customer Number: 22428

Telephone: (202) 672-5569

Facsimile: (202) 672-5399

Stephen B. Maebius

Attorney for Applicant

Registration No. 35,264

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 018733/1292		SERIAL NO. Unassigned	
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> Submitted on: February 26, 2001				APPLICANT S. V. Govindan, et al.			
				FILING DATE Unknow		GROUP ART UNIT Unknown	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	A1	5,274,076	12/28/1993	Barbet et al.	530	330	
	A2	5,273,738	12/28/1993	Matthews et al.	424	1.1	
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	A3	0 419 387	03/27/1991	Europe			ABST.
	A4	0 492 478	07/01/1992	Europe			
	A5	2 109 407	06/2/1983	United Kingdom			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	A6	DUMAS, P. et al., "SPECIFICITE DE L'IODOTYROSINE DESIODASE DES MICROSOMES THYROIDIENS ET HEPATIQUES", <i>Biochimica et Biophysica Acta</i> , 293, pp. 36-47, (1973), Elsevier Scientific Publishing Company					
	A7	STEIN, Rhona et al., "Effects of Radiolabeling Monoclonal Antibodies with a Residualizing Iodine Radiolabel on the Accretion of Radioisotope in Tumors ¹ ", <i>Cancer Research</i> 55, pp. 3132-3139, (1995)					
	A8	DEVYS, Anne et al., XP-002054227, "Comparative targeting of human colon-carcinoma multicell spheroids using one- and two-step (bispecific antibody) techniques", <i>Int. J. Cancer</i> , 67(6), 2 sheets, (1996), United 211 INSERM					
	A9	BIANCHI, Paul C., "1-Pharmacology", <i>Chemical Abstracts</i> , Vol. 109, No. 25, pp. 1 and 404, (12/19/1988)					
	A10	STROBEL, Jeffrey L. et al., " ¹²⁵ I-Glycoconjugate Labels for Identifying Sites of Protein Catabolism in Vivo: Effect of Structure and Chemistry of Coupling to Protein on label Entrapment in Cells after Protein Degradation ¹ ", <i>Archives of Biochemistry and Biophysics</i> , Vol. 240, No. 2, pp. 635-645, (8/1/1985)					
EXAMINER				DATE CONSIDERED			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 018733/0905		SERIAL NO. 09/696,740	
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i> Submitted on: February 26, 2001				APPLICANT S. V. Govindan, et al.			
				FILING DATE October 26, 2000		GROUP ART UNIT 1644	
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	A11	GOLDENBERG, David M., "Monoclonal Antibodies in Cancer Detection and Therapy", <i>The American Journal of Medicine</i> , Vol. 94, pp. 297-312, (March 1993), Cahnners Publishing Company					
	A12	FRANANO, F. Nicholas et al., "Metabolism of Receptor Targeted ¹¹¹ In-DTPA-Glycoproteins: Identification of ¹¹¹ In-DTPA-ε-lysine as the Primary Metabolic and Excretory Product", <i>Nucl. Med. Biol.</i> , Vol. 21, No. 8, pp. 1023-1034, (1994), Elseview Science Ltd.					
	A13	ALI, Seham A. et al., "Improving the Tumor Retention of Radioiodinated Antibody: Aryl Carbohydrate Adducts ¹ ", <i>Cancer Research (Suppl.)</i> 50, pp. 783s-788s, (February 1, 1999)					
	A14	PAWLAK-BYCZKOWSKA, Elizabeth J. et al., "Two New Monoclonal Antibodies, EPB01 and EPB-2, Reactive with Human Lymphoma ¹ ", <i>Cancer Research</i> 49, pp. 4568-4577, (August 5, 1989)					
	A15	WILBUR, D. Scott et al., "Development of a Stable Radioiodinating Reagent to Label Monoclonal Antibodies for Radiotherapy of Cancer", <i>The Journal of Nuclear Medicine</i> , 30, pp. 216-226, (1989)					
	A16	STEIN, Rhona et al., "Murine Monoclonal Antibodies Raised against Human Non-Small Carcinoma of the Lung: Specificity and Tumor Targeting ¹ ", <i>Cancer Research</i> 50, pp. 1330-1336, (February 15, 1990)					
	A17	GOVINDAN, Serengulam V. et al., "Thiolations, 99mTc Labelings, and Animal In Vivo Biodistributions of Divalent Monoclonal Antibody Fragments [†] ", <i>Bioconjugate Chem.</i> 7, pp. 290-297, (1996), American Chemical Society					
	A18	HANSEN, Hans J. et al., "Characterization of Second-Generation Monoclonal Antibodies Against Charinoembryonic Antigen", <i>CANCER Vol. 71, No. 11</i> , pp. 3478-3485, (June 1, 1993), American Cancer Society					

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: October 15, 2003 <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Unassigned
				Filing Date	10/15/2003
				First Named Inventor	S. V. Govindan et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	3	of	3	Attorney Docket Number	018733-0905

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A19	WO	99/11294		IMMUNOMEDICS, INC.	03-11-1999		
	A20	WO	98/08548		IMMUNOMEDICS, INC.	03-05-1998		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A21	S.V. GOVINDAN et al., "Labeling of Monoclonal Antibodies with Diethylenetriaminepentaacetic Acid- Appended Radioiodinated Peptides Containing D-Amino Acids," Bioconjugate Chem. 1999, 10(2):231-240, American Chemical Society (XP-002202221).	
	A22	R.M. SHARKEY et al., "Advantage of residualizing radiolabels for an Internalizing antibody against the B- cell lymphoma antigen, CD22," Cancer Immunol. Immunother. (1997) Vol. 44:179-188, Springer-Verlag (XP-002202223).	
	A23	L. SHIH et al., "Localization of an antibody to CD74 (MHC class II invariant chain) to human B cell lymphoma xenografts in nude mice," Cancer Immunol. Immunother. (2000), 49:208-216, Springer-Verlag (XP-002202222).	
	A24	J.L. STROBEL et al., "I-Glycoconjugate Labes for Identifying Sites of Protein Catabolism <i>in vivo</i> : Effect of Structure and Chemistry of Coupling to Protein on Label Entrapment in Cells after Protein Degradation," Archives of Biochemistry and Biophysics (1985) 240(2):635-645, Academic Press Inc. (XP-001073950).	